

OPTIONAL SERVICE BULLETIN

OSB 40-069

OSB 40NG-004

OSB D4-078

OSB F4-023

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 40, DA 40 D, DA 40 F, DA 40 NG
Serial numbers: 40.004 and subsequent
D4.001 and subsequent
40.DS001 and subsequent
40.FC001 and subsequent
40.N001 and subsequent

I.3 Date of effectivity

20-Jul-2010

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

Installation of a coated safety walk.

ATA-Code: 11-20

I.6 Reason

An optional painted safety walk for the DA 40 Series has been developed which withstands extreme weather conditions. With this Service Bulletin the retrofit installation of the coated Safety Walk is possible on aircraft already in operation.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory No. OÄM 40-317, which has been approved under the authority of EASA Design Organization Approval ref. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA ref. EASA.21J.052.

I.9 Accomplishments / Instructions

Comply with WI-OSB 40-069 / WI-OSB D4-078 / WI-OSB F4-023 / WI-OSB 40NG-004, latest effective issue.

I.10 Mass (Weight) and CG

Negligible.

II PLANNING INFORMATION**II.1 Material and Availability**

See WI-OSB 40-069 / WI-OSB D4-078 / WI-OSB F4-023 / WI-OSB 40NG-004, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approx. 4 hours.

II.4 Credit

None.

II.5 Reference Documents

Diamond Aircraft 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

Diamond Aircraft 40 NG Airplane Maintenance Manual, Doc. No. 6.02.15, latest effective issue.

III REMARKS

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All works, particular those that are not especially described in this work instruction, must be carried out in accordance with the referenced maintenance manual.
- c) In case of doubt, contact Diamond Aircraft Industries GmbH.

**EXECUTION REPORT TO
SERVICE BULLETIN
OSB 40-069
OSB 40NG-004
OSB D4-078
OSB F4-023****AIRPLANE DATA**

Airplane Serial Number: _____

Airplane Registration: _____

Airplane Operator: _____

Hours of operation of airplane: _____

No. of landings: _____

Hours of operation-engine _____

Typical operation of airplane: private, club, training, other _____

Date, Name, SignPlease fax the completed form to Fax No. +43-2622-26700-1369 or e-mail to
airworthiness@diamond-air.at

WORK INSTRUCTION

WI-OSB 40-069
WI-OSB 40NG-004
WI-OSB D4-078
WI-OSB F4-023

„ Coated Safety Walk “

I GENERAL INFORMATION

I.1 Subject

Installation of Safety Walk by coating with non slip paint.

I.2 Reference Documents

Diamond Aircraft DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

Diamond Aircraft DA 40 NG Airplane Maintenance Manual, Doc. No. 6.02.15, latest effective issue.

I.3 Remarks

- a) The work must be carried out by a certified aircraft service station or a certified aircraft maintenance mechanic.
- b) All works, particular those that are not especially described in this work instruction, must be carried out in accordance with the referenced maintenance manual.
- c) The work must be performed in Workshop conditions, acc. to Airplane Maintenance Manual Section 51-00.
- d) In case of doubt, contact Diamond Aircraft Industries GmbH.
- e) It is recommended to print this Work Instruction in color.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

D41-1120-10-00X01

II.2 Special Tools

Safety Walk Substrate Sprinkler P/N: DAI-9011-20-03_LV

Plastic Spattle commercial

II.3 Material

| Quantity | Part No. | Description |
|-----------------|-------------------|-----------------------------|
| 1 | D41-1120-10-01_LV | Safety Walk masking foil LH |
| 1 | D41-1120-10-02_LV | Safety Walk masking foil RH |
| 3 | 22101980 | Fill-in 2 K 400ml RAL 7038 |
| 0,5 kg (1.1 lb) | DAI-9011-20-03 | Safety Walk Substrate |



Materials including special tools are available from Diamond Aircraft Industries.




II.4 Consumable Material




| Quantity | Part No. | Description |
|----------|---------------|----------------------------------|
| a. r. | 40_325_0_632 | Sandpaper grit 320 |
| a. r. | 40_720_0_47 | Red Scotch-Brite |
| a. r. | N000 146 | Silicon remover |
| a. r. | N000 148 | Acetone |
| a. r. | 29003/C86/C10 | Socomore® Dienstone DLS Satwipes |

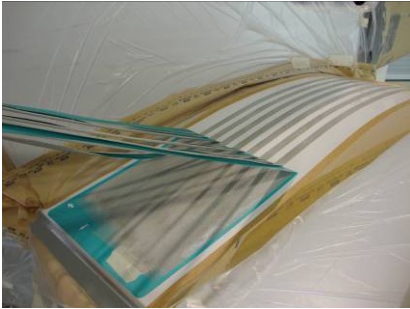
Consumable materials may be procured locally or from Diamond Aircraft Industries

III INSTRUCTIONS

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| 1 | <p>Remove the old Safety Walk: Warm up the old Safety Walk with a heat gun. Start removing the Safety Walk by lifting up from one corner. Carefully pull off the Safety Walk.</p> <p>CAUTION: Do not exceed 60° Celsius (140°F) surface temperature.</p> |
| 2 | <p>Remove the adhesives layer of old Safety Walk from surface. Use fresh acetone or socomore® cleaning cloth (P/N 29003/C86/C10) to remove the old adhesive layer.</p> <p>NOTE: Do not use cleaning or polishing agents which contain silicone.</p> <p>WARNING: When handling chemicals always observe Health and Safety Regulations given by the manufacturer of the chemicals.</p> |
| 3 | <p>Clean the entire area on the wing stub. Use water to remove dirt from the surface. If necessary, add a mild cleaning agent to the water. Refer to AMM Section 12-30.</p> |
| 4 | <p>Use a commercial solvent to remove grease from the surface. The surface must be totally clean from grease or dirt.</p> |
| 5 | <p>Place the Safety Walk masking foil on the Fuselage aligned to the wing seal.</p> <div style="display: flex; justify-content: space-around;">   </div> |

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| 6 | Remove the protective layer from the Safety Walk masking foil.  |
| 7 | Positioning the Safety Walk masking foil according to the markings on fuselage (don't use soap water) and remove the transfer foil smoothly. |
| 8 | Remove air bubbles from the edges of the cutouts with the aid of a plastic spatula.  |
| 9 | Prepare the surface in the cutouts of the Safety Walk masking foil by carefully roughening the paint with sandpaper (grit 320). Prepare the ends of strips cut out with red Scotch-Brite.  |
| 10 | Clean the surface of Safety Walk cutouts with vacuum and silicone remover. |

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| 11 | <p>Cover the surface around the Safety Walk masking foil.</p>  |
| 12 | <p>Prepare lacquer P/N 22101980 in acc. with the technical information sheet. Shake 2 minutes before and after operating the red button. Press red button with the ball of your hand until stop is reached.</p> |
| 13 | <p>Spray a thick film into the cutouts of the Safety Walk masking foil.</p> |
| 14 | <p>Use Safety Walk Substrate Sprinkler P/N DAI-9011-20-03-LV to apply the Safety Walk Substrate P/N DAI-9011-20-03 evenly over cutouts.</p>  |
| 15 | <p>Apply a second layer of lacquer P/N 22101980. Make sure the whole substrate is evenly covered with a sufficient amount of paint.</p>  |

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| 16 | Carefully pull off the Safety Walk Masking foil starting from one edge. Remove the cover in direction of the strips.  |
| 17 | Let the system dry for 12h in a dry, weather protected area at temperatures from 20°C (68°F) to 30°C (86°F). |
| 18 | Remove the covering from the surface. |
| 19 | Clean the working area and check for foreign objects. |
| 20 | Make necessary entries into aircraft logs. |